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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

DUNSTON, JENNIFER ANN

ART UNIT

PAPER NUMBER

1636

DATE MAILED: 08/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/743,163	<b>Applicant(s)</b> INAN ET AL.	
	<b>Examiner</b> Jennifer Dunston	<b>Art Unit</b> 1636	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☒ Claim(s) 1-24 are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

### **DETAILED ACTION**

Claims 1-24 are pending in the instant application.

#### ***Election/Restrictions***

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1 and 7-20 (as they read on SEQ ID NO: 16), drawn to an isolated polynucleotide comprising a regulatory region containing a nucleotide sequence of SEQ ID NO: 16 or variant thereof, classified in class 536, subclass 24.1.
- II. Claims 2 and 7-20 (as they read on SEQ ID NO: 17), drawn to an isolated polynucleotide comprising a regulatory region containing a nucleotide sequence of SEQ ID NO: 17 or variant thereof, classified in class 536, subclass 24.1.
- III. Claims 3 and 7-20 (as they read on SEQ ID NO: 18), drawn to an isolated polynucleotide comprising a regulatory region containing a nucleotide sequence of SEQ ID NO: 18 or variant thereof, classified in class 536, subclass 24.1.
- IV. Claims 4 and 7-20 (as they read on SEQ ID NO: 19), drawn to an isolated polynucleotide comprising a regulatory region containing a nucleotide sequence of SEQ ID NO: 19 or variant thereof, classified in class 536, subclass 24.1.
- V. Claims 5 and 7-20 (as they read on SEQ ID NO: 20), drawn to an isolated polynucleotide comprising a regulatory region containing a nucleotide sequence of SEQ ID NO: 20 or variant thereof, classified in class 536, subclass 24.1.

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- VI. Claims 6 and 7-20 (as they read on SEQ ID NO: 21), drawn to an isolated polynucleotide comprising a regulatory region containing a nucleotide sequence of SEQ ID NO: 21 or variant thereof, classified in class 536, subclass 24.1.
- VII. Claims 23 and 7-20 (as they read on SEQ ID NO: 30), drawn to an isolated polynucleotide comprising the sequence of SEQ ID NO: 30, classified in class 536, subclass 24.1.
- VIII. Claims 24 and 7-20 (as they read on SEQ ID NO: 31), drawn to an isolated polynucleotide comprising the nucleotide sequence set forth in SEQ ID NO: 31, classified in class 536, subclass 24.1.
- IX. Claims 21 and 22 (as they read on SEQ ID NO: 16), drawn to a method of producing a protein comprising growing a host cell comprising the nucleic acid sequence of SEQ ID NO: 16, or variant thereof, classified in class 435, subclass 69.1.
- X. Claims 21 and 22 (as they read on SEQ ID NO: 17), drawn to a method of producing a protein comprising growing a host cell comprising the nucleic acid sequence of SEQ ID NO: 17, or variant thereof, classified in class 435, subclass 69.1.
- XI. Claims 21 and 22 (as they read on SEQ ID NO: 18), drawn to a method of producing a protein comprising growing a host cell comprising the nucleic acid sequence of SEQ ID NO: 18, or variant thereof, classified in class 435, subclass 69.1.

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- XII. Claims 21 and 22 (as they read on SEQ ID NO: 19), drawn to a method of producing a protein comprising growing a host cell comprising the nucleic acid sequence of SEQ ID NO: 19, or variant thereof, classified in class 435, subclass 69.1.
- XIII. Claims 21 and 22 (as they read on SEQ ID NO: 20), drawn to a method of producing a protein comprising growing a host cell comprising the nucleic acid sequence of SEQ ID NO: 20, or variant thereof, classified in class 435, subclass 69.1.
- XIV. Claims 21 and 22 (as they read on SEQ ID NO: 21), drawn to a method of producing a protein comprising growing a host cell comprising the nucleic acid sequence of SEQ ID NO: 21, or variant thereof, classified in class 435, subclass 69.1.
- XV. Claims 21 and 22 (as they read on SEQ ID NO: 30), drawn to a method of producing a protein comprising growing a host cell comprising the nucleic acid sequence of SEQ ID NO: 30, classified in class 435, subclass 69.1.
- XVI. Claims 21 and 22 (as they read on SEQ ID NO: 31), drawn to a method of producing a protein comprising growing a host cell comprising the nucleic acid sequence of SEQ ID NO: 31, classified in class 435, subclass 69.1.

The inventions are distinct, each from the other because of the following reasons:

Inventions of Groups I-VIII and Groups IX-XVI, respectively, are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can

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be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the nucleic acid molecules of Groups I-VIII can be used in a materially different process such as the manufacture of probes for Southern blotting or a screening assay for the identification of transcription factors capable of binding to and regulating expression from the claimed nucleic acid sequence.

The nucleic acids of Groups I-VIII are chemically, biologically, and functionally distinct from each other and thus one does not render the other obvious. The product of each group is not needed to produce the products of the other groups (each of which can be isolated from cells or organisms, made synthetically, and/or are self-replicating without the need for the isolated products of the other groups). Therefore, the inventions of the groups are capable of supporting separate patents.

The inventions of Groups IX-XVI are biologically and functionally different and distinct from each other and thus one does not render the other obvious. The methods of Groups IX-XVI comprise steps which are not required for or present in the methods of the other groups: growing a host cell comprising the nucleic acid of SEQ ID NO: 16 (Group IX), growing a host cell comprising the nucleic acid of SEQ ID NO: 17 (Group X), growing a host cell comprising the nucleic acid of SEQ ID NO: 18 (Group XI), growing a host cell comprising the nucleic acid of SEQ ID NO: 19 (Group XII), growing a host cell comprising the nucleic acid of SEQ ID NO: 20 (Group XIII), growing a host cell comprising the nucleic acid of SEQ ID NO: 21 (Group XIV), growing a host cell comprising the nucleic acid of SEQ ID NO: 30 (Group XV), and growing a host cell comprising the nucleic acid of SEQ ID NO: 31 (Group XVI). The end results of the

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methods are different in that the method of each group results in the production of an amount of a protein based upon the level of expression obtained with the claimed nucleic acid sequence. Thus, the operation, function and effects of these different methods are different and distinct from each other. Therefore, the inventions of these different, distinct groups are capable of supporting separate patents.

Except for the specific relationships described above, the inventions of Groups I-VIII and Groups IX-XVI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different products of Groups I-VIII are not necessarily used in or made by the methods of Groups IX-XVI.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper. This restriction to examination of a single sequence is due to the now very high and undue burden for examining more than one sequence which is caused by the continued exponential increase of size of the sequence databases to be searched for each sequence, resulting in a corresponding increase in computer search time and Examiner time for reviewing the computer search results. Each nucleic acid sequence requires a separate search of the commercial sequence databases, and thus restriction is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

#### ***Rejoinder Practice***

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim



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will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoiner in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoiner.** Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer Dunston whose telephone number is 571-272-2916. The examiner can normally be reached on M-F, 9 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Remy Yucel can be reached on 571-272-0781. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jennifer Dunston, Ph.D.  
Examiner  
Art Unit 1636

jad

CELINE QIAN, PH.D.  
PRIMARY EXAMINER

